

Appl. No. 10/664,266
Resp. Dated Feb. 24, 2005
Reply to Response of Oct. 29, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (currently amended) A shock absorbing device comprising:

a first arm;

a second arm;

a mid-filler attachment without a bottom plate or lid having a side with a non-linear shape between the first arm and the second arm attachment to promote crushing of the mid-filler attachment during application of impact force to the shock absorbing device, and a hollow center wherein the first arm and the second arm are permanently affixed to the mid-filler attachment in a manner to concentrate the impact force by crushing of the mid-filler attachment.

Claim 2. (original) The shock of claim 1 further comprising:

a shock absorbing material affixed within the hollow center of the mid-filler attachment.

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Claim 3. (currently amended) The shock of claim 2 wherein the shock absorbing material contains symmetrically arranged voids to increase compression of the shock absorbing material having a cross sectional shape is formed into a shape selected from the group consisting of lotus root or loofah.

Claim 4. (original) The shock of claim 1 further comprising:

an attachment means to allow for removal or attachment of the first arm to a car frame.

Claim 5. (original) The shock of claim 1 further comprising:

an attachment means to allow for removal or attachment of the second arm to a bumper.

Claim 6. (original) The shock of claim 5 further comprising:

a bumper.

Claims 7-31 (Canceled)

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Claim 32. (new) A shock absorbing device comprising:

a first arm;

a second arm;

a mid-filler attachment having an elliptical cross-sectional shape, wherein the mid-filler attachment is open and without a bottom plate or lid, wherein the mid-filler attachment has a hollow center and wherein the sides of the mid-filler attachment are located between the first arm and the second arm and are of a non-linear shape, wherein the arms are permanently affixed to the mid-filler attachment in a manner to promote crushing at the midpoint of the side of the mid-filler attachment during impact.

Claim 33. (new) The shock of claim 32 further comprising:

a shock absorbing material affixed within the hollow center of the mid-filler attachment.

Claim 34. (new) The shock of claim 33 wherein the shock absorbing material contains symmetrically arranged voids to increase compression of the shock absorbing material having a cross sectional shape selected from the group consisting of lotus root or loofah.

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Claim 35. (new) The shock of claim 32 wherein the elliptical shape of the mid-filler attachment is in the form of a circle.

Claim 36. (new) The shock of claim 32 further comprising:
an attachment means to allow for removal or attachment of the first arm to a car frame.

Claim 37. (new) The shock of claim 32 further comprising:
an attachment means to allow for removal or attachment of the second arm to a bumper.

Claim 38. (new) The shock of claim 36 further comprising:
a bumper.

Claim 39. (new) A shock absorbing device comprising:
a first arm;
a second arm;
a mid-filler attachment having a hollow center without a bottom plate or lid, wherein the mid-filler attachment has a polygonal cross-sectional shape with non-linear sides to promote crushing of the mid-filler attachment at the mid-point of the side during application of impact force, and wherein the first arm and the second arm are

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permanently affixed to the mid-filler attachment in a manner to promote crushing of the midpoint of the mid-filler attachment.

Claim 40. (new) The shock of claim 39 further comprising:
a shock absorbing material affixed within the hollow center of the mid-filler attachment.

Claim 41. (new) The shock of claim 40 wherein the shock absorbing material contains symmetrically arranged voids to increase compression of the shock absorbing material having a cross sectional shape selected from the group consisting of lotus root or loofah.

Claim 42. (new) The shock of claim 39 further comprising:
an attachment means to allow for removal or attachment of the first arm to a car frame.

Claim 43. (new) The shock of claim 39 further comprising:
an attachment means to allow for removal or attachment of the second arm to a bumper.

Claim 44. (new) The shock of claim 39 further comprising:
a bumper.

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Claim 45. (new) A shock absorbing device comprising:

a first arm;

a second arm;

a mid-filler attachment with a hollow center wherein the first arm and the second arm are permanently affixed to the mid-filler attachment in a manner to promote crushing;

a shock absorbing material affixed within the hollow center of the mid-filler attachment wherein the shock absorbing material contains symmetrically arranged voids to increase compression of the shock absorbing material having a cross sectional shape selected from the group consisting of lotus root or loofah.